

Current research on historical air-pressurees at KNMI (the Netherlands)

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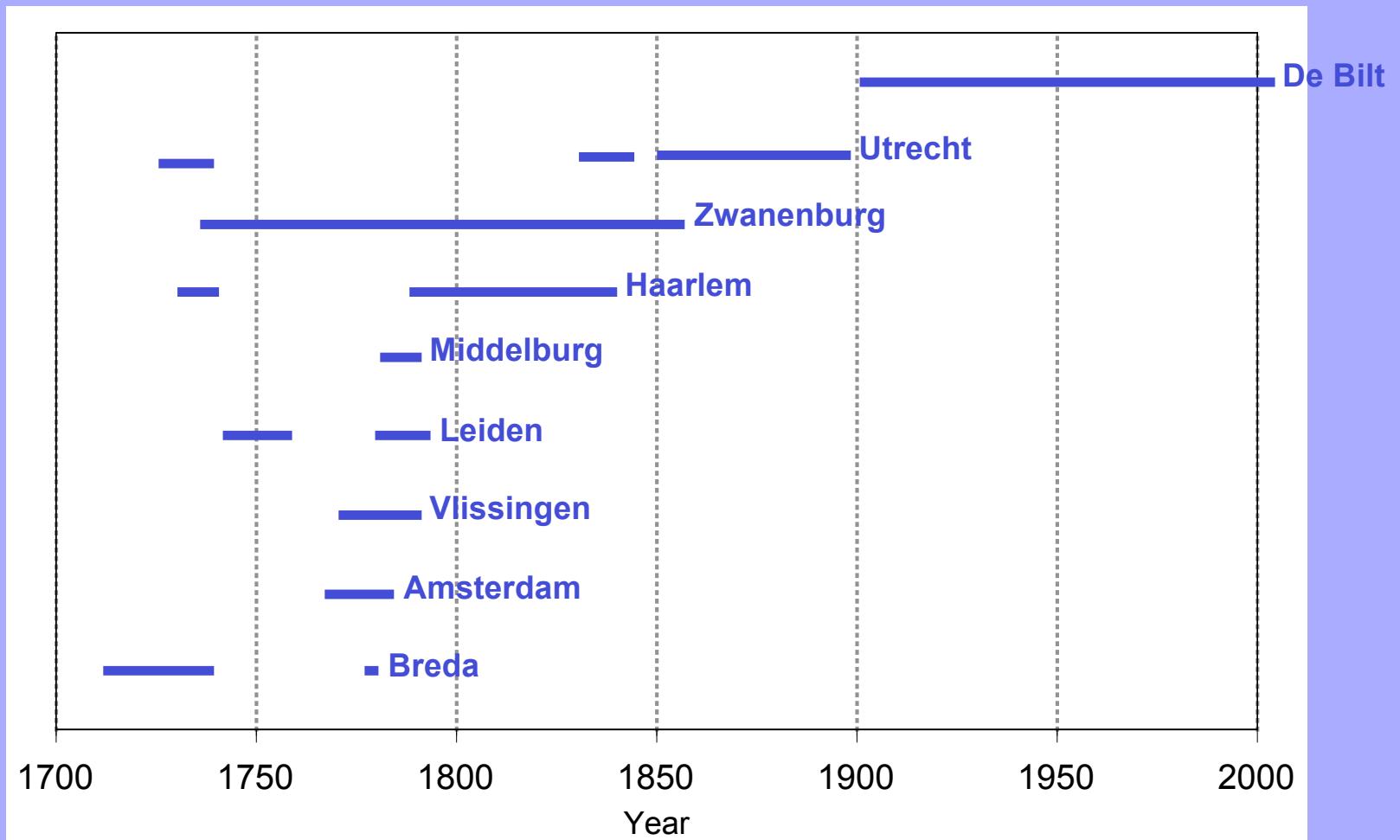
1. Central Netherlands daily air pressure series (1712 – present)

Stations with (sub)daily pressure observations



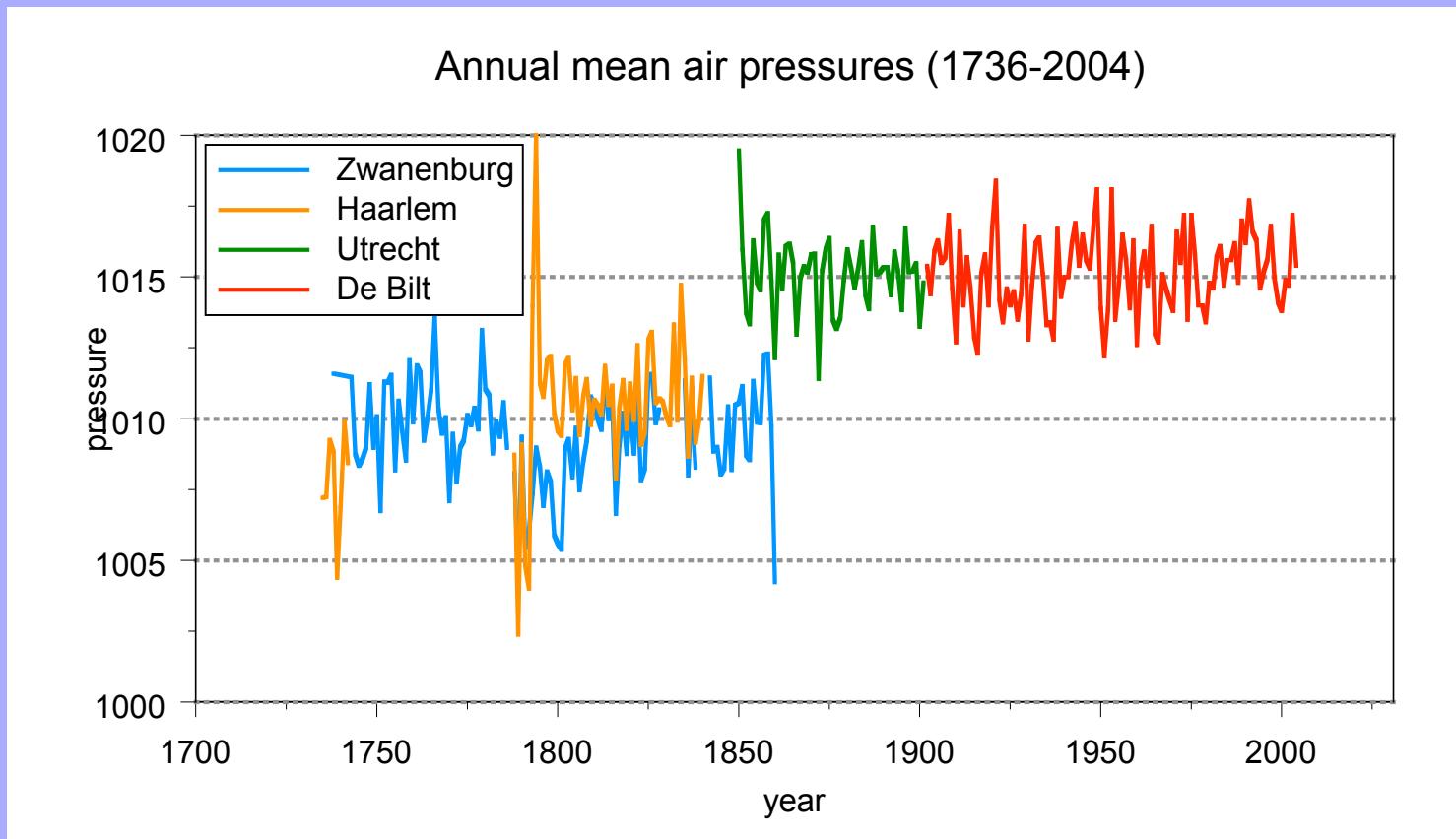
1. Central Netherlands daily air pressure series (1712 – present)

Measurement periods



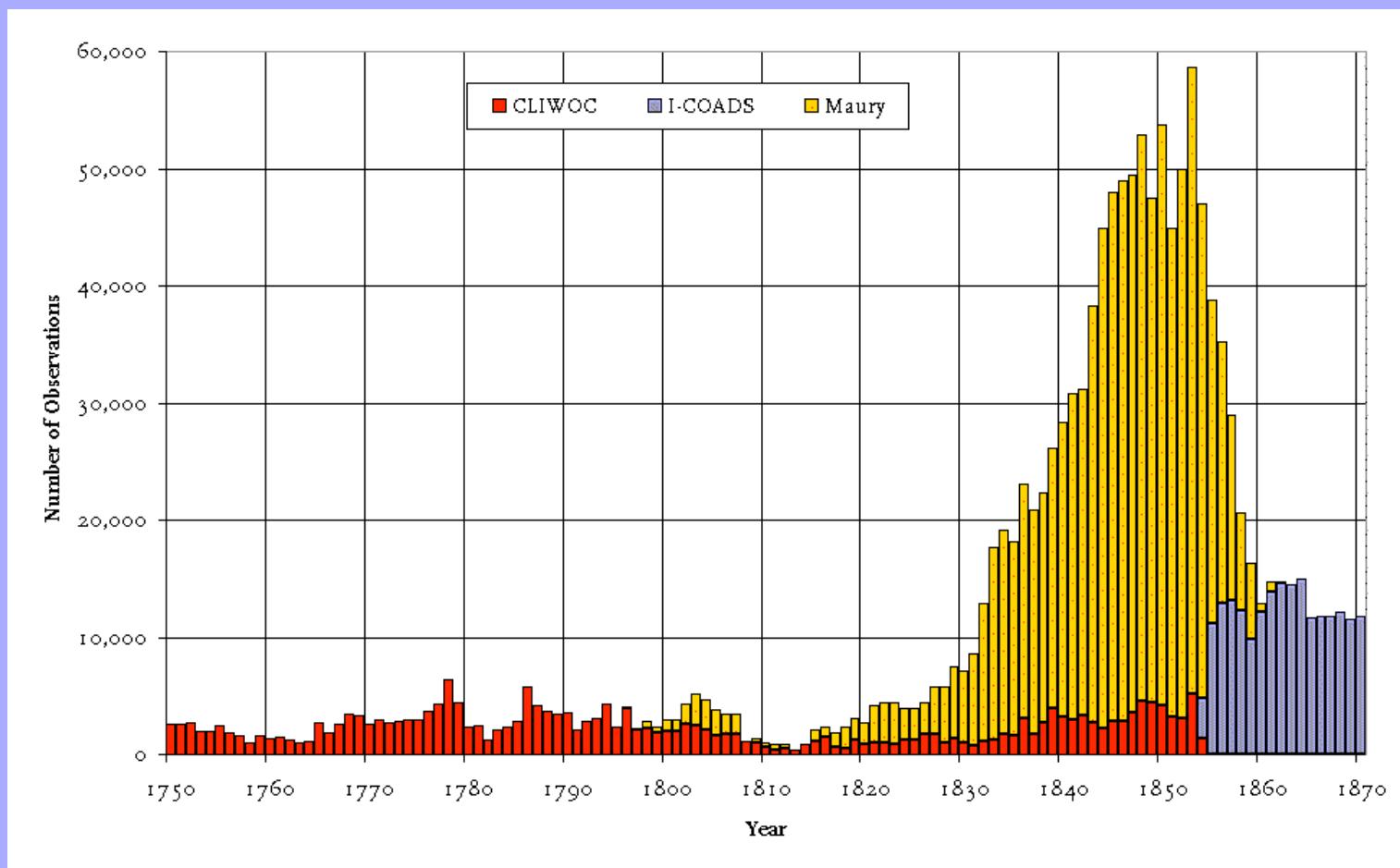
1. Central Netherlands daily air pressure series (1712 – present)

Time series of 4 contributing stations



2. Maury data (1780-1857)

Maury data set



Annual number of observations in CLIWOC, I-COADS Release 1 and the US Maury collection 1750-1870. All values are reduced to number of ship-day observations

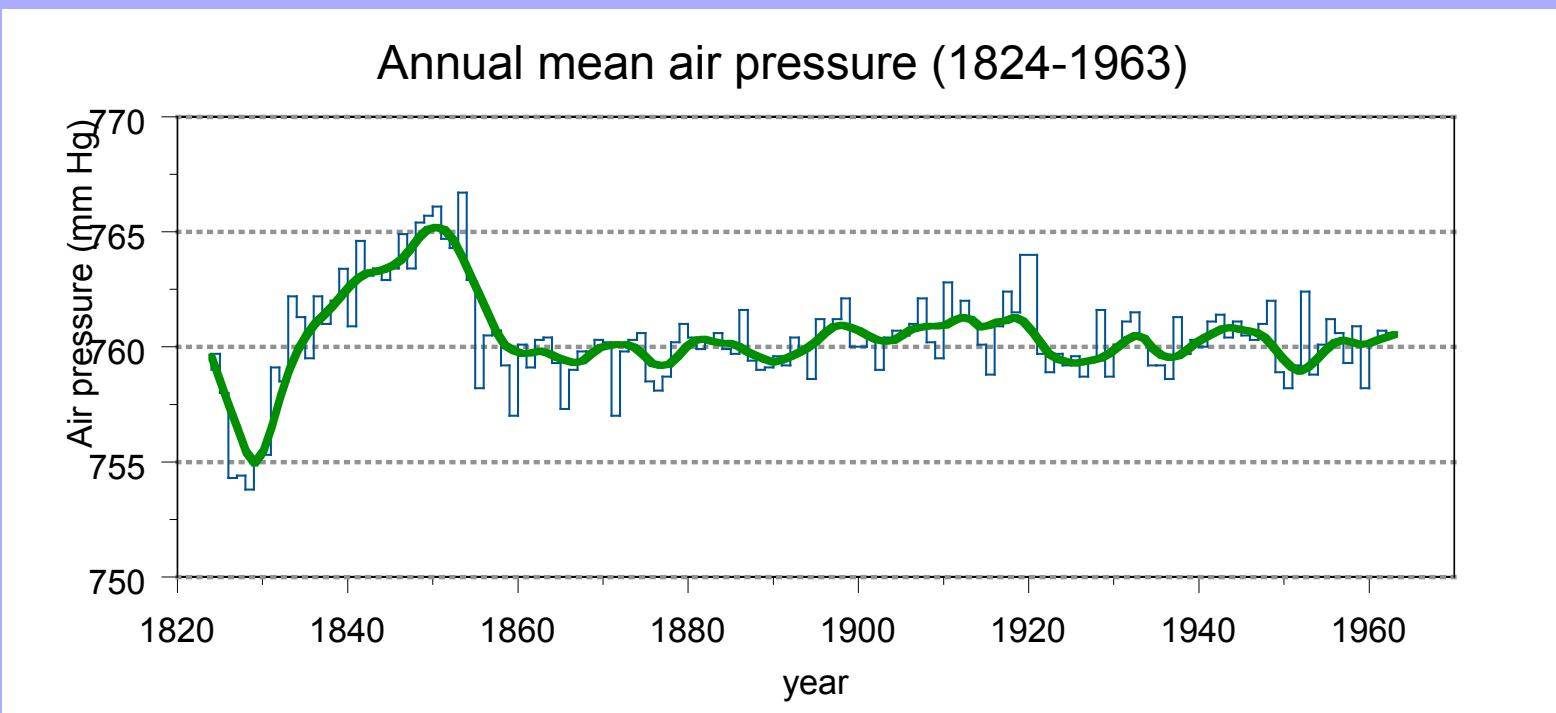
2. Maury data (1780-1857)

Problems with the air pressures in the Maury dataset

- **Time dependent negative bias**
- **Uncertainty about units**
- **Uncertainty about corrections**

3. Amsterdam City Water Office (1824-1963)

Hourly weather observation of the Amsterdam City Water Office (1784–1963)



4. Ensembles gridded datasets (1900 – present)

WP5.1 Development of daily high-resolution gridded observational datasets for Europe

- Collection of (among others) daily pressure data for Europe
- Quality control of the data
- Individual time series in ECA&D (European Climate Assessment and Dataset) → <http://eca.knmi.nl>
- Gridded datasets ready in 2007
- http://www.knmi.nl/samenw/ensembles_rt5/WP51.html